## Supplementary Figures

Thaker et al (2019)

SFigure 1


SFigure 1: Tandem affinity purification (TAP) from reconstituted TCR-null zeta ${ }^{-1-}$ 3A9 cells. Upper panel: structure of TAP zeta chain construct with tandem Step-II and His/V5 tags for purification. Middle panel: presence of the TAP zeta chain in constituted TCR-null zeta ${ }^{-1-}$ 3A9 cells. Lower panel: flow cytometry showing the surface expression of the TCR complex on TCR-null zeta ${ }^{-1}$ 3A9 cells transfected to express TAP zeta complex.

## SFigure 2



SFigure 2: Rasal1 peptides are detected by TCR complex by tandem affinity purification (TAP) and MS/MS analysis. Peptides detected by MS/MS from 2 separate experiments.

SFigure 3





SFigure 3: MFI expression values for granzyme $B$ and cytokines on scrambled siRNA or Rasal1 KD siRNA T-cells. Histogram showing the \% of CD8 TILs expressing granzyme, Interleukin 2, IFN- $\gamma 1$ and TNF $\alpha$. T-cells were transfected with scrambled siRNA or Rasal1 KD siRNA T-cells followed by removal of TILs from EL4 tumors as described in the text.

Fig. 1B


Fig. 1 D


Fig. 2B


Fig. 2C


SFigure 4: Uncropped versions of Figures 1-2

Fig. 3B


Fig. 3C


Fig. 3E


Fig. 3F


SFigure 4: Uncropped versions of Figure 3

Fig. 4A (top)



Fig. 4A (bottom)


Fig. 4C


Fig. 5A uncropped


Fig. 5D uncropped


SFigure 4: Uncropped versions of figures 4-5

